



Fruit, Vegetable, Nursery and Greenhouse Production Concentration (Agriculture B.S. Degree)

The Fruit and Vegetable Production curriculum provides career training to prepare you for a rewarding and successful career. A wide array of jobs are available in private and commercial business, food systems, purchasing, sales, finance, extension, government agencies and education. Our program stresses new developments in Agri-tech in the classroom with practical application through laboratories. Hands-on-training is reinforced through on-campus practicums in the university greenhouses, nursery area, and food plots as well as our farmers market. Additional experience can be gained through off-campus internships. Our small class size promotes interaction between students and faculty. We are small enough to care for you as an individual but large enough to provide ever career opportunity.

Career Opportunities

The practical instruction and hands-on application enables you to be an immediate asset to employers. You will join the ranks of successful EKU graduates employed in the fruit and vegetable industry, greenhouse production, sales professions, along with those who have started their own businesses. The United States Department of Agriculture predicts a shortfall of graduates in all areas of agriculture.

- **Commercial Vegetable Marketing Manager** - Plan and conduct product/package development. Work with outside Consultants and vendors to develop and design new products and packages
- **Laboratory Technician** - Assisting in the design and implementation of research experiments
- **Horticulturalist** - State, Federal, and private land manager
- **Extension/4-H Agent** - Develop local agriculture and youth programs
- **Horticultural Service Manager** - Manages retail business involving sales of agricultural supplies; has responsibilities for all aspects of business management
- **Production Supervisor** - Oversees the production of quality products to fulfill customer requirements

Philosophy

The Department of Agriculture blends scientific theory with practical application and hands-on experiences. Current concepts and theories are presented in the classroom and then applied in the laboratory with the faculty member as the laboratory supervisor using a hands-on approach. Practicum classes at the University facilities and through cooperative education are further utilized to reinforce the practical application of scientific theories. Professors are experienced, enthusiastic, and passionate about providing students the skills necessary to succeed with the changing technology and environment of the future greenscapes.

Department Facilities & Student Organizations

The Horticulture Program at EKU is supported by excellent classroom laboratories and facilities at the A.B. Carter Building, including a modern computer laboratory, agriculture mechanics shop, hydraulic trainers, varying indoor and outdoor irrigation systems, greenhouses, fruit and vegetable gardens, landscape gardens and turf areas such as an on-campus golf hole complement and develop a student's horticulture understanding. Students have the opportunity to develop their extracurricular leadership skills through the Agriculture/Collegiate Farm Bureau Club, Block & Bridle Club, Delta Tau Alpha Agriculture Honor Society, Horticulture Club, Pre-Vet Club, and Sigma Alpha Sorority.

For More Information

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Department of Agriculture
College of Science, Technology, Engineering, and Math (2024-25)

Suggested Curriculum Guide for Fruit, Vegetable, Nursery and Greenhouse Production Concentration

Freshman (1st semester) 15 hrs			Freshman (2nd semester) 16 hrs		
§GSD 101	Foundations of Learning	3	AGR 213	Principles of Ag Mechanics and Energy Sys	3
AGR 130/131	Plant Science with Lab -OR-	4	BIO 111	Cell and Molecular Biology -OR-	4
OHO 131/132	Principles of Horticulture with Lab		BIO 112	Ecology and Evolution	
AGR 115	Operation of Agricultural Equipment	2	INF 104	Computer Lit and Software Appl -OR-	3
AGR 170	Appl of Unmanned Ariel Systems in Ag	3	TEC 161	Computer Applications in Technology	
Gen. Ed. 1A (ENG 101)		3	Gen. Ed. 1B (ENG 102)		3
			Gen. Ed. 2 (Math)		3
Sophomore (1st semester) 14 hrs			Sophomore (2nd semester) 15 hrs		
AGR 215	Principles of Soils	3	OHO 354	Horticulture Equipment and Irrigation	3
AGR 216	Principles of Soils Laboratory	1	ECO 120	Economic Reasoning and Issues	3
OHO 365	Plant ID I	3	Gen. Ed. 1C (Oral Communications)		3
CHE 101	Introduction to Chemistry	3	Gen. Ed. 3A (Arts)		3
CHE 101L	Introduction to Chemistry Lab	1	Gen. Ed. 3B (Humanities)		3
Gen. Ed. 5A (History)		3			
Junior (1st semester) 16 hrs			Junior (2nd semester) 16 hrs		
AGR 304	Pest Management	4	AGR 310	Principles of Agribusiness Management	3
AGR 305	Professional Skills Seminar	1	AGR 319	Renewable & Sustainable Energy Sys	3
AGR 308	Agricultural Economics	3	AGR 404	Advanced Pest Management	3
AGR 340	Conservation of Agricultural Resources	3	Advisor approved elective		3
OHO 372	Horticulture Retail Technology	2	Gen. Ed. 6 (Diversity)		3
Advisor approved elective		3	AGR/OHO Experiential Learning		1
Senior (1st semester) 16 hrs			Senior (2nd semester) 14 hrs		
AGR 416	Soil Fertility and Management	3	AGR 411	Senior Seminar	1
OHO 375	Post Harvest Management	3	OHO 388	Greenhouse Production	3
AGR/OHO Upper Division Elective		3	AGR/OHO Capstone		3
Advisor approved elective		3	AGR/OHO Upper Division Elective		3
AGR/OHO Experiential Learning		1	AGR/OHO Upper Division Elective		3
Gen. Ed. 6 (Diversity)		3	AGR/OHO Experiential Learning		1

§ Course must be taken in the semester indicated

UNIVERSITY GRADUATION REQUIREMENTS.....39 hours

- General Education.....36 hours
- Foundations in Learning (GSD 101; waived for transfers with 30+ hrs).....3 hours
- Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories)

MAJOR REQUIREMENTS

Core Courses.....49 hours

AGR 130 and 131(1) or OHO 131 and 132(1); AGR 115(2), AGR 170, AGR 213, AGR 215, AGR 216(1), AGR 304(4), AGR 305(1), AGR 308, AGR 310, AGR 319, AGR 340, AGR 411(1); Plus three hours from (AGR experiential learning): AGR/OHO 301(1-6), AGR 302, AGR/OHO 349(1-6); Plus one course from (AGR/OHO capstone): AGR/OHO 499, AGR 509, OHO 498; Plus nine hours selected from upper division AGR and/or OHO courses.

Fruit, Vegetable, Nursery and Greenhouse Production Concentration Requirements.....29 hours

AGR 404, AGR 416, OHO 354, OHO 365, OHO 372(2), OHO 375, OHO 388; Plus nine hours of advisor approved electives in AGR and/or OHO courses.

Supporting Course Requirements.....5 hours

BIO 111(4) or BIO 112(4); CHE 101, CHE 101L(1); ECO 120; INF 104 or TEC 161.

Total Curriculum Requirements

122 hours